WHAT IS CLAIMED IS:

1. A SDH signal channel pointer analyzing apparatus comprising:

channel information detection means for sequentially detecting pointer position information of channels inserted in a frame of an input SDH signal, and channel identification information for identifying the channel, as a set of channel information;

channel pointer extraction means for extracting channel pointer value inserted in said input SDH signal based on the pointer position information contained in said channel information, each time the channel information is detected by said channel information detection means;

a reference data memory for storing channel pointer value, pointer counter data and status data representing alarm states as a set of reference data for each channel, respectively in different address area for each channel;

reference data readout means for reading out the reference data of the channel specified by channel identification information contained in the channel information from said reference data memory, each time the channel information is detected by said channel information detection means;

pointer processing means for judging states of justification and alarm, from the channel pointer value

extracted from said channel pointer extraction means, and reference data read out by said reference data readout means and for generating a new reference data based on the judgment results; and

5   reference data update means for updating the reference data of the same channel stored in said reference data memory by the new reference data generated by said pointer processing means.

2. A SDH signal channel pointer analyzing
10   apparatus according to claim 1, further comprising:

a display means for displaying the results of judgment by said pointer processing means.

3. A SDH signal channel pointer analyzing method comprising the steps of:

15   sequentially detecting pointer position information of channels inserted in a frame of an input SDH signal, and channel identification information for identifying the channel, as a set of channel information;

20   extracting channel pointer value inserted in said input SDH signal based on the pointer position information contained in said channel information, each time the channel information is detected;

storing channel pointer value, pointer counter
25   data and status data representing alarm states as a set of reference data for each channel into a reference data memory, respectively in different address area for

each channel;

reading out the reference data of the channel specified by channel identification information contained in the channel information from said reference data memory, each time the channel information is detected;

judging states of justification and alarm, from the extracted channel pointer value, and reference data read out from said reference data memory and, generating a new reference data based on the judgment results; and

updating the reference data of the same channel stored in said reference data memory by the new reference data.

4. A SDH signal channel pointer analyzing method according to claim 3, further comprising the step of displaying said judgment results.